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TI - DATA PROCESSOR FOR CHROMATOGRAPHY
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PA - SHIMADZU CORP
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AB - PURPOSE: To analyze an unknown sample accurately eliminating subjective judgment by an operator by analyzing a reference data and a reference sample to calibrate reference holding time automatically.
- CONSTITUTION: A reference data storage means has a reference data comprising holding time t_{oi} of an identification peak, a peak amplitude value or a peak area value a_{oi} and a component concentration c_{oi} ($i=1-n$) stored about a reference sample, wherein (n) represents the maximum number of identification peaks. Prior to the analysis of an unknown sample, a data detection means determines holding time t_j of the peak, the peak amplitude value or the peak area value a_j ($j=1-n$) about the reference sample with a component concentration c_j known, wherein N is the maximum number of detection peaks. A peak identification means performs a peak identification about the reference sample based on two-dimensional information (t_j, a_j) and a data (t_{oi}, a_{oi}, c_{oi}) . An automatic calibration means calibrates the reference holding time t_{oi} of the reference data storage means automatically according to the holding time j of the peak identified. The reference holding time calibrated is used to perform the subsequent analysis of the unknown sample thereby achieving higher analysis accuracy.
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